

FIG. 1

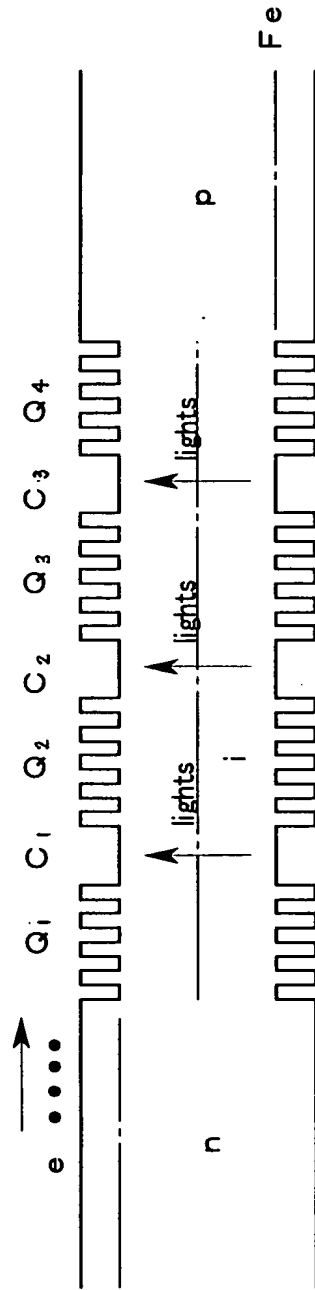


FIG. 2

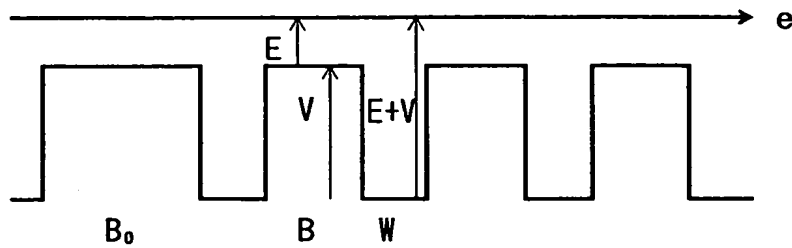


FIG. 3

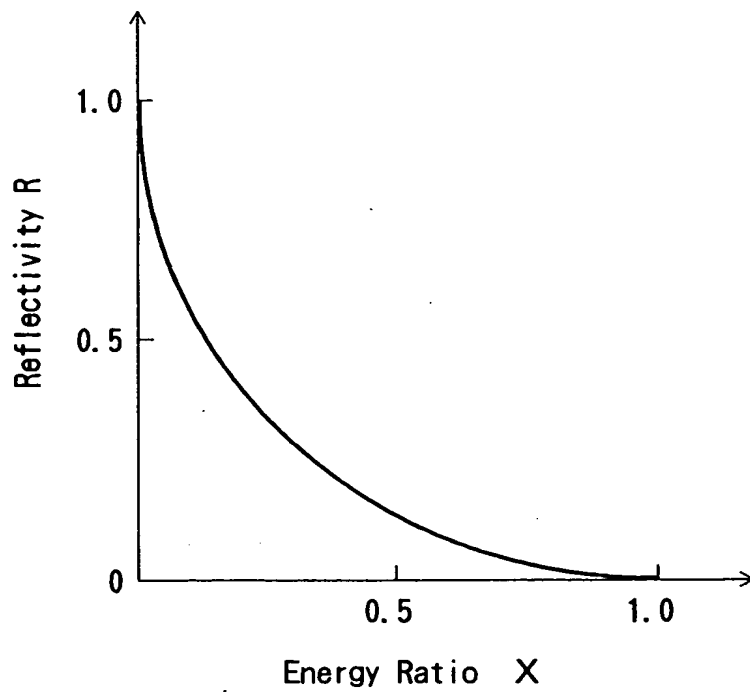


FIG. 4A

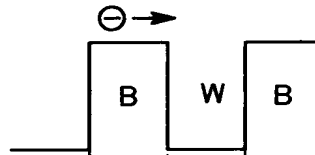


FIG. 4B

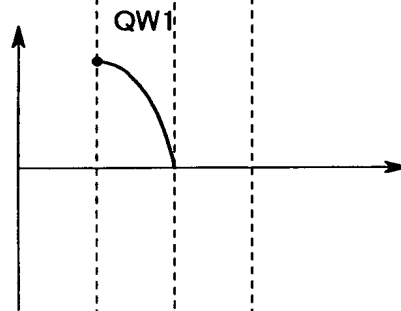


FIG. 4C

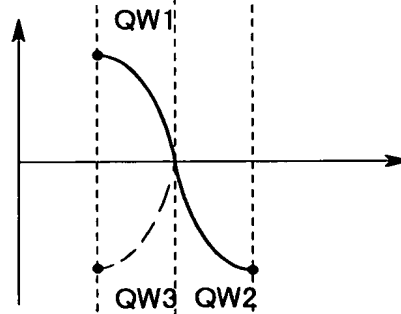


FIG. 4D

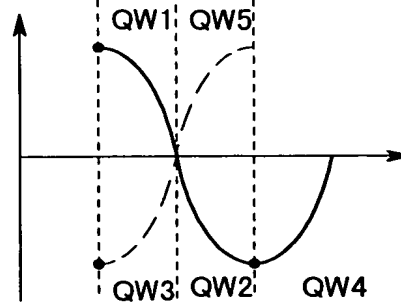


FIG. 4E

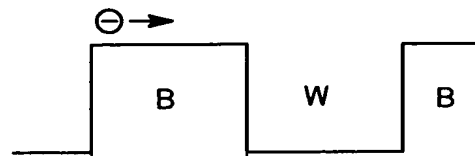


FIG. 4F

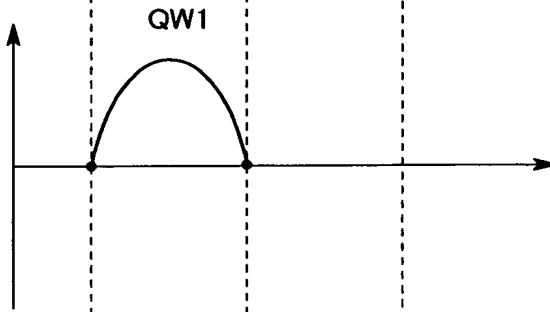


FIG. 4G

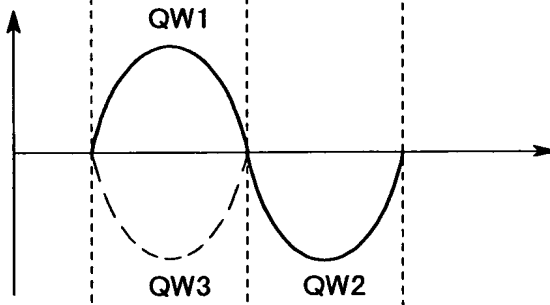


FIG. 4H

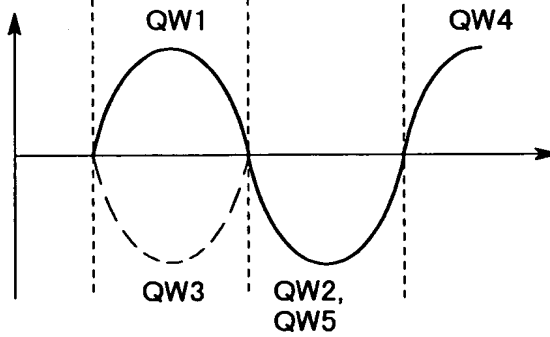


FIG. 5

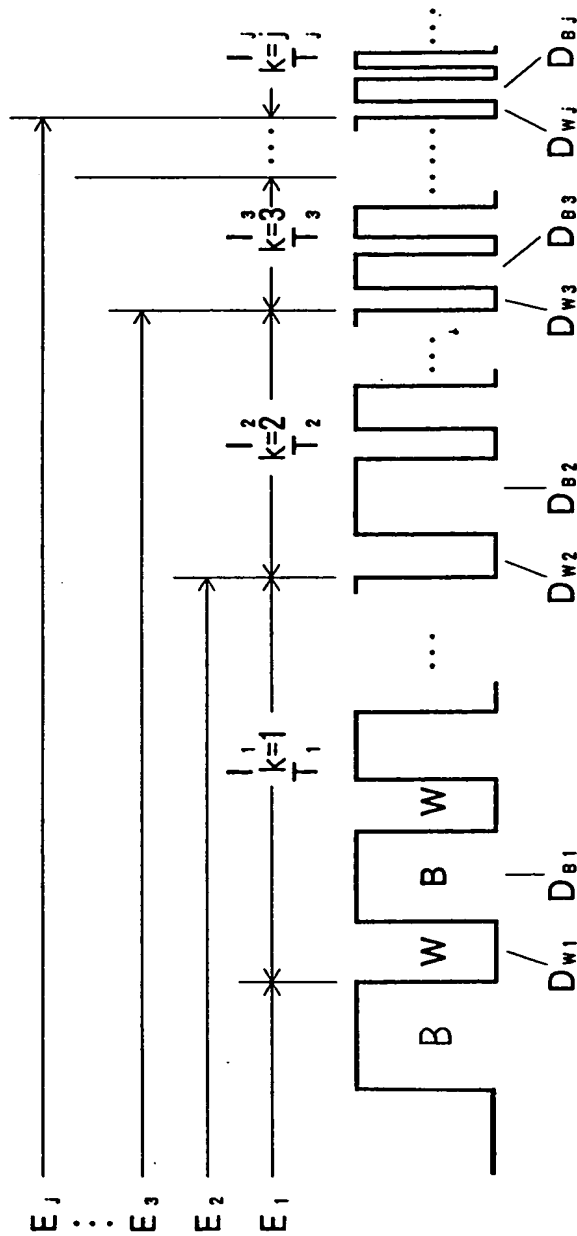


FIG. 6A

Diagram illustrating a cross-sectional view of a multi-layered structure. The structure consists of a base layer labeled B_0 , followed by a series of alternating layers labeled B and W . The thickness of the W layer is indicated by δ , and the thickness of the B layer is indicated by V . The structure is shown as a series of rectangular blocks of different heights.

FIG. 6B

B_0 W B W B W B

FIG. 6C

A schematic diagram of a periodic structure. It shows a series of vertical rectangular blocks (W) separated by gaps (B). The blocks are labeled 'W' and the gaps are labeled 'B'. The width of the blocks is labeled δ and the width of the gaps is labeled δ . The blocks are arranged in a periodic pattern along a horizontal axis.

FIG. 6D

A schematic diagram of a periodic structure. It shows a series of rectangular blocks labeled "B" separated by gaps labeled "W". The first block is labeled B_0 . A dimension line labeled δ indicates the width of the first gap. The structure is shown in a perspective view with a top surface and a bottom surface.

Figure 1

(a) H_2O (b) CO_2 (c) CH_4 (d) C_2H_6 (e) C_3H_8 (f) C_4H_{10} (g) C_5H_{12} (h) C_6H_{14} (i) C_7H_{16} (j) C_8H_{18} (k) C_9H_{20} (l) $\text{C}_{10}\text{H}_{22}$ (m) $\text{C}_{11}\text{H}_{24}$ (n) $\text{C}_{12}\text{H}_{26}$ (o) $\text{C}_{13}\text{H}_{28}$ (p) $\text{C}_{14}\text{H}_{30}$ (q) $\text{C}_{15}\text{H}_{32}$ (r) $\text{C}_{16}\text{H}_{34}$ (s) $\text{C}_{17}\text{H}_{36}$ (t) $\text{C}_{18}\text{H}_{38}$ (u) $\text{C}_{19}\text{H}_{40}$ (v) $\text{C}_{20}\text{H}_{42}$ (w) $\text{C}_{21}\text{H}_{44}$ (x) $\text{C}_{22}\text{H}_{46}$ (y) $\text{C}_{23}\text{H}_{48}$ (z) $\text{C}_{24}\text{H}_{50}$ (aa) $\text{C}_{25}\text{H}_{52}$ (ab) $\text{C}_{26}\text{H}_{54}$ (ac) $\text{C}_{27}\text{H}_{56}$ (ad) $\text{C}_{28}\text{H}_{58}$ (ae) $\text{C}_{29}\text{H}_{60}$ (af) $\text{C}_{30}\text{H}_{62}$ (ag) $\text{C}_{31}\text{H}_{64}$ (ah) $\text{C}_{32}\text{H}_{66}$ (ai) $\text{C}_{33}\text{H}_{68}$ (aj) $\text{C}_{34}\text{H}_{70}$ (ak) $\text{C}_{35}\text{H}_{72}$ (al) $\text{C}_{36}\text{H}_{74}$ (am) $\text{C}_{37}\text{H}_{76}$ (an) $\text{C}_{38}\text{H}_{78}$ (ao) $\text{C}_{39}\text{H}_{80}$ (ap) $\text{C}_{40}\text{H}_{82}$ (aq) $\text{C}_{41}\text{H}_{84}$ (ar) $\text{C}_{42}\text{H}_{86}$ (as) $\text{C}_{43}\text{H}_{88}$ (at) $\text{C}_{44}\text{H}_{90}$ (au) $\text{C}_{45}\text{H}_{92}$ (av) $\text{C}_{46}\text{H}_{94}$ (aw) $\text{C}_{47}\text{H}_{96}$ (ax) $\text{C}_{48}\text{H}_{98}$ (ay) $\text{C}_{49}\text{H}_{100}$ (az) $\text{C}_{50}\text{H}_{102}$ (ba) $\text{C}_{51}\text{H}_{104}$ (bb) $\text{C}_{52}\text{H}_{106}$ (bc) $\text{C}_{53}\text{H}_{108}$ (bd) $\text{C}_{54}\text{H}_{110}$ (be) $\text{C}_{55}\text{H}_{112}$ (bf) $\text{C}_{56}\text{H}_{114}$ (bg) $\text{C}_{57}\text{H}_{116}$ (bh) $\text{C}_{58}\text{H}_{118}$ (bi) $\text{C}_{59}\text{H}_{120}$ (bj) $\text{C}_{60}\text{H}_{122}$ (bk) $\text{C}_{61}\text{H}_{124}$ (bl) $\text{C}_{62}\text{H}_{126}$ (bm) $\text{C}_{63}\text{H}_{128}$ (bn) $\text{C}_{64}\text{H}_{130}$ (bo) $\text{C}_{65}\text{H}_{132}$ (bp) $\text{C}_{66}\text{H}_{134}$ (bq) $\text{C}_{67}\text{H}_{136}$ (br) $\text{C}_{68}\text{H}_{138}$ (bs) $\text{C}_{69}\text{H}_{140}$ (bt) $\text{C}_{70}\text{H}_{142}$ (bu) $\text{C}_{71}\text{H}_{144}$ (bv) $\text{C}_{72}\text{H}_{146}$ (bw) $\text{C}_{73}\text{H}_{148}$ (bx) $\text{C}_{74}\text{H}_{150}$ (by) $\text{C}_{75}\text{H}_{152}$ (bz) $\text{C}_{76}\text{H}_{154}$ (ca) $\text{C}_{77}\text{H}_{156}$ (cb) $\text{C}_{78}\text{H}_{158}$ (cc) $\text{C}_{79}\text{H}_{160}$ (cd) $\text{C}_{80}\text{H}_{162}$ (ce) $\text{C}_{81}\text{H}_{164}$ (cf) $\text{C}_{82}\text{H}_{166}$ (cg) $\text{C}_{83}\text{H}_{168}$ (ch) $\text{C}_{84}\text{H}_{170}$ (ci) $\text{C}_{85}\text{H}_{172}$ (cj) $\text{C}_{86}\text{H}_{174}$ (ck) $\text{C}_{87}\text{H}_{176}$ (cl) $\text{C}_{88}\text{H}_{178}$ (cm) $\text{C}_{89}\text{H}_{180}$ (cn) $\text{C}_{90}\text{H}_{182}$ (co) $\text{C}_{91}\text{H}_{184}$ (cp) $\text{C}_{92}\text{H}_{186}$ (cq) $\text{C}_{93}\text{H}_{188}$ (cr) $\text{C}_{94}\text{H}_{190}$ (cs) $\text{C}_{95}\text{H}_{192}$ (ct) $\text{C}_{96}\text{H}_{194}$ (cu) $\text{C}_{97}\text{H}_{196}$ (cv) $\text{C}_{98}\text{H}_{198}$ (cw) $\text{C}_{99}\text{H}_{200}$ (cx) $\text{C}_{100}\text{H}_{202}$ (cy) $\text{C}_{101}\text{H}_{204}$ (cz) $\text{C}_{102}\text{H}_{206}$ (da) $\text{C}_{103}\text{H}_{208}$ (db) $\text{C}_{104}\text{H}_{210}$ (dc) $\text{C}_{105}\text{H}_{212}$ (dd) $\text{C}_{106}\text{H}_{214}$ (de) $\text{C}_{107}\text{H}_{216}$ (df) $\text{C}_{108}\text{H}_{218}$ (dg) $\text{C}_{109}\text{H}_{220}$ (dh) $\text{C}_{110}\text{H}_{222}$ (di) $\text{C}_{111}\text{H}_{224}$ (dj) $\text{C}_{112}\text{H}_{226}$ (dk) $\text{C}_{113}\text{H}_{228}$ (dl) $\text{C}_{114}\text{H}_{230}$ (dm) $\text{C}_{115}\text{H}_{232}$ (dn) $\text{C}_{116}\text{H}_{234}$ (do) $\text{C}_{117}\text{H}_{236}$ (dp) $\text{C}_{118}\text{H}_{238}$ (dq) $\text{C}_{119}\text{H}_{240}$ (dr) $\text{C}_{120}\text{H}_{242}$ (ds) $\text{C}_{121}\text{H}_{244}$ (dt) $\text{C}_{122}\text{H}_{246}$ (du) $\text{C}_{123}\text{H}_{248}$ (dv) $\text{C}_{124}\text{H}_{250}$ (dw) $\text{C}_{125}\text{H}_{252}$ (dx) $\text{C}_{126}\text{H}_{254}$ (dy) $\text{C}_{127}\text{H}_{256}$ (dz) $\text{C}_{128}\text{H}_{258}$ (ea) $\text{C}_{129}\text{H}_{260}$ (eb) $\text{C}_{130}\text{H}_{262}$ (ec) $\text{C}_{131}\text{H}_{264}$ (ed) $\text{C}_{132}\text{H}_{266}$ (ee) $\text{C}_{133}\text{H}_{268}$ (ef) $\text{C}_{134}\text{H}_{270}$ (eg) $\text{C}_{135}\text{H}_{272}$ (eh) $\text{C}_{136}\text{H}_{274}$ (ei) $\text{C}_{137}\text{H}_{276}$ (ej) $\text{C}_{138}\text{H}_{278}$ (ek) $\text{C}_{139}\text{H}_{280}$ (el) $\text{C}_{140}\text{H}_{282}$ (em) $\text{C}_{141}\text{H}_{284}$ (en) $\text{C}_{142}\text{H}_{286}$ (eo) $\text{C}_{143}\text{H}_{288}$ (ep) $\text{C}_{144}\text{H}_{290}$ (eq) $\text{C}_{145}\text{H}_{292}$ (er) $\text{C}_{146}\text{H}_{294}$ (es) $\text{C}_{147}\text{H}_{296}$ (et) $\text{C}_{148}\text{H}_{298}$ (eu) $\text{C}_{149}\text{H}_{300}$ (ev) $\text{C}_{150}\text{H}_{302}$ (ew) $\text{C}_{151}\text{H}_{304}$ (ex) $\text{C}_{152}\text{H}_{306}$ (ey) $\text{C}_{153}\text{H}_{308}$ (ez) $\text{C}_{154}\text{H}_{310}$ (fa) $\text{C}_{155}\text{H}_{312}$ (fb) $\text{C}_{156}\text{H}_{314}$ (fc) $\text{C}_{157}\text{H}_{316}$ (fd) $\text{C}_{158}\text{H}_{318}$ (fe) $\text{C}_{159}\text{H}_{320}$ (ff) $\text{C}_{160}\text{H}_{322}$ (fg) $\text{C}_{161}\text{H}_{324}$ (fh) $\text{C}_{162}\text{H}_{326}$ (fi) $\text{C}_{163}\text{H}_{328}$ (fj) $\text{C}_{164}\text{H}_{330}$ (fk) $\text{C}_{165}\text{H}_{332}$ (fl) $\text{C}_{166}\text{H}_{334}$ (fm) $\text{C}_{167}\text{H}_{336}$ (fn) $\text{C}_{168}\text{H}_{338}$ (fo) $\text{C}_{169}\text{H}_{340}$ (fp) $\text{C}_{170}\text{H}_{342}$ (fq) $\text{C}_{171}\text{H}_{344}$ (fr) $\text{C}_{172}\text{H}_{346}$ (fs) $\text{C}_{173}\text{H}_{348}$ (ft) $\text{C}_{174}\text{H}_{350}$ (fu) $\text{C}_{175}\text{H}_{352}$ (fv) $\text{C}_{176}\$

FIG. 7A

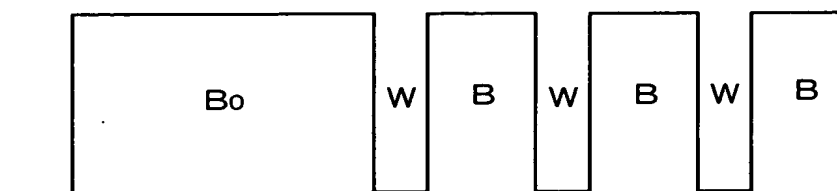


FIG. 7B

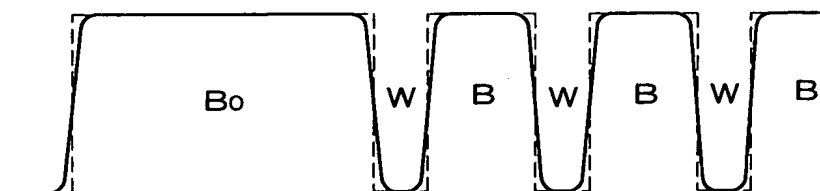


FIG. 7C

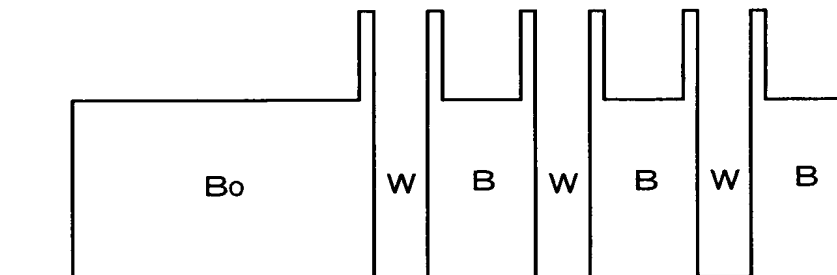
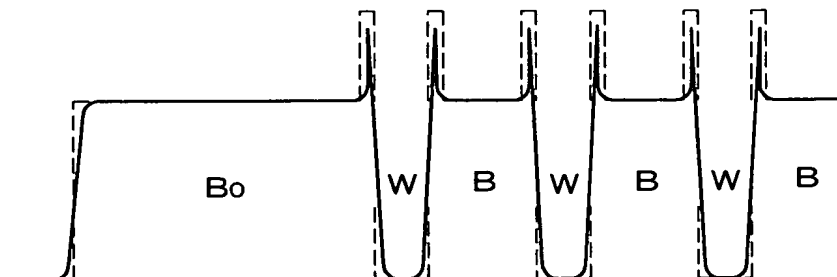


FIG. 7D



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FIG. 8

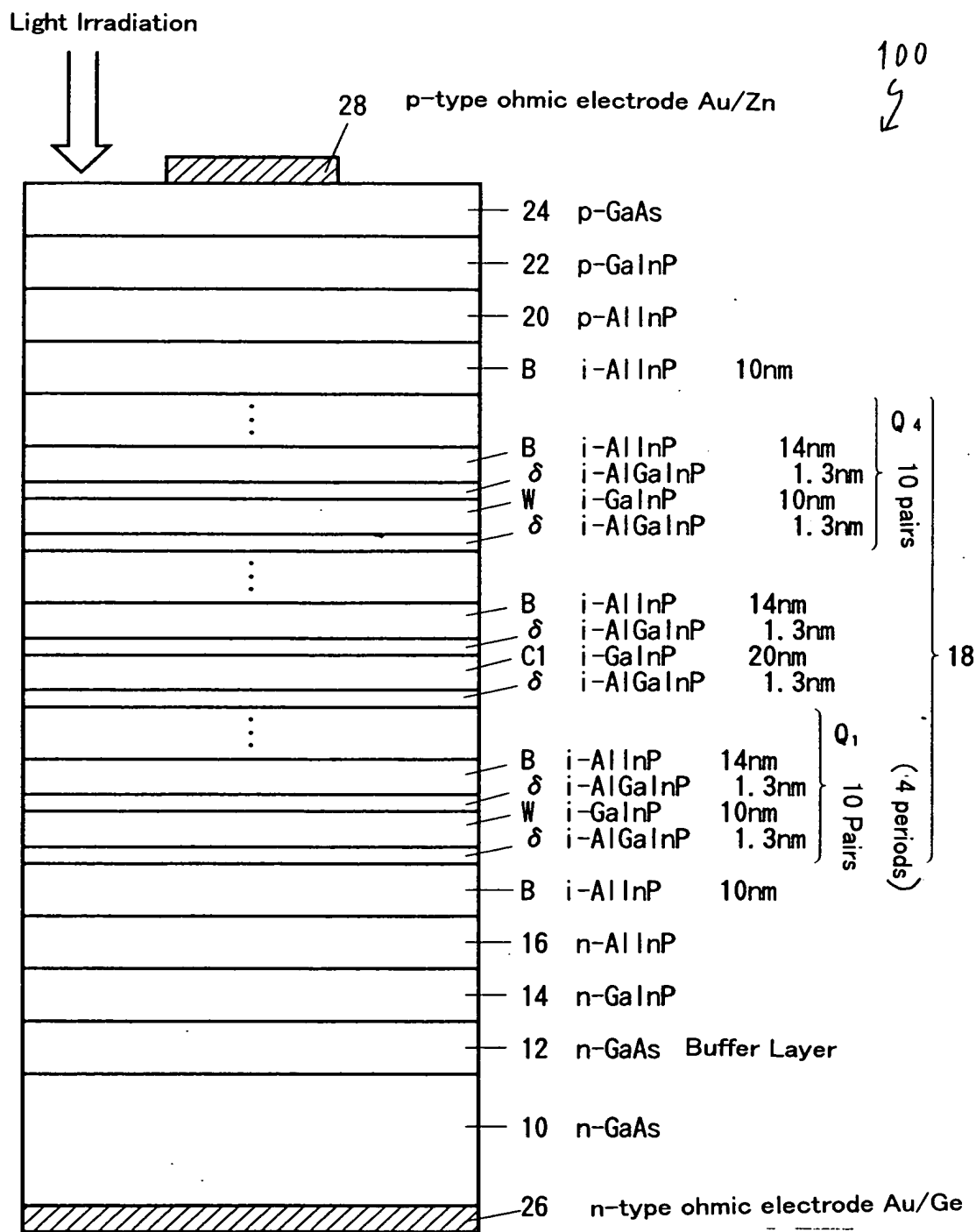


FIG. 9

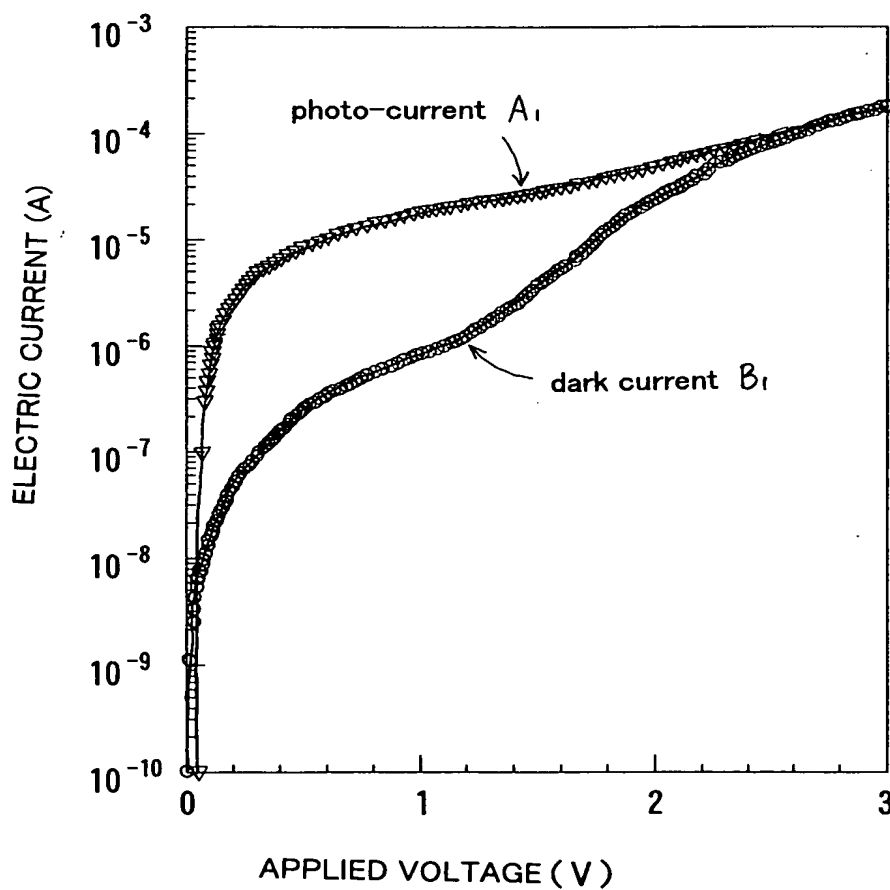


FIG. 10

